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**NATURAL POLYMER ANTIBACTERIAL CHITOSAN SALT USING  
CHITOSAN AND ALGINIC ACID AND PREPARATION METHOD THEREOF**

**Abstract**

**PURPOSE:** A chitosan salt, its preparation method, a compound useful for the preparation of the chitosan salt and a composition for an antibacterial drug and fungicidal drug are provided, which chitosan salt is antibacterial and is reduced in salty taste.

**CONSTITUTION:** The compound is represented by the formula, wherein R1 is H or Na<sup>+</sup>; R2 is alginic acid or amino acid(aspartic acid, glutamic acid, aminoacetic acid); and n is a degree or polymerization and is an integer of 0-10,000. The preparation method comprises the steps of treating the compound of the formula with brine to remove harmful heavy metals; and re-treating it with brine to prepare a mixed-composition of alginic acid-containing chitosan salt. Preferably the salt is purified by using chitosan, chitosan oligosaccharide and alginic acid, dissolved in a solvent and dried to form crystal. The solvent is selected from the group consisting of methanol, ethanol, acetonitrile, isopropyl alcohol, acetic acid, lactic acid, HCl, and their mixtures.